































Features

- Slim and Low profile (31mm)
- · Fanless design,500W convection
- · Withstand 300VAC surge input for 5 seconds
- · Built-in active PFC function
- -30~+70°C working temperature
- Protections: Short circuit / Overload / Over voltage / Over temperature
- DC OK active signal and redundant function(option)
- Operating altitude up to 5000 meter (Note.5)
- LED indicator for power on
- · 3 years warranty

Applications

- · Industrial automation machinery
- · Industrial control system
- · Mechanical and electrical equipment
- Electronic instruments, equipments or apparatus
- · LED display application
- Power Source Equipment for PoE(55V model)

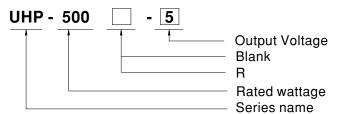
GTIN CODE

MW Search: https://www.meanwell.com/serviceGTIN.aspx

Description

UHP-500 series is a 500W single-output slim type power supply with 31mm of low profile design. Adopting the full range 90~264VAC input, the entire series provides an output voltage line of 4.2V, 5V,12V,15V,24V,36V,48Vand 55V. In addition to the high efficiency up to 95%, that the whole series operates from -30°C ~ 70°C under air convection without fan. UHP-500 has the complete protection functions and 5G anti-vibration capability; It is complied with the international safety regulations such as TUV BS EN/EN62368-1,BS EN/EN60335-1, UL 62368-1 and GB4943. UHP-500 series serves as a high performance power supply solution for various industrial applications.

■ Model Encoding



Type	Description	Note
Blank	Enclosed	In Stock
R	Buit-in DC OK active signal and redundant function.	By request

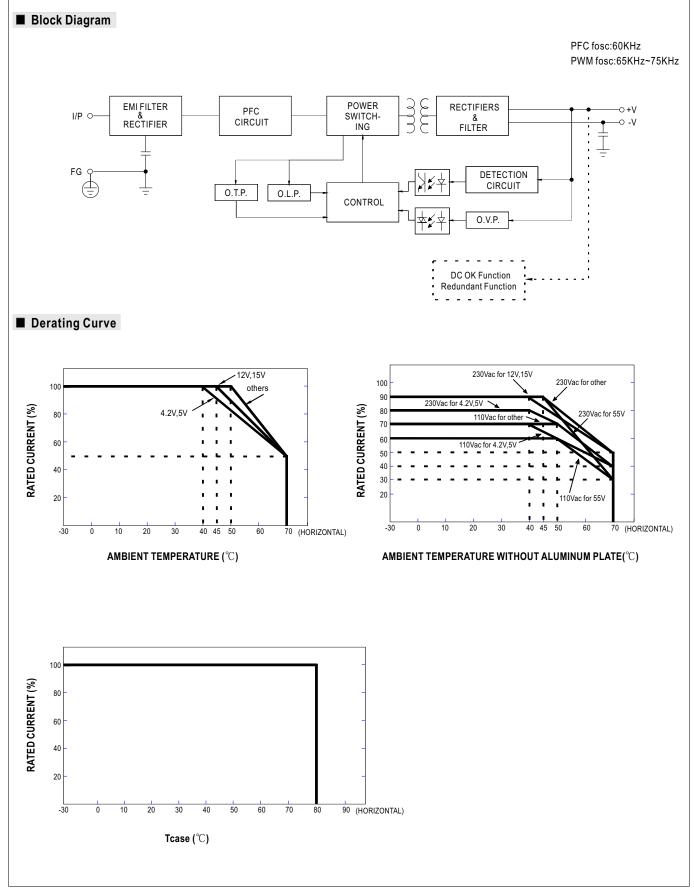


SPECIFICATION

PECIFICAT	IION								
MODEL		UHP-5004.2	UHP-5005	UHP-50012	UHP-50015	UHP-500 -24	UHP-50036	UHP-50048	UHP-5005
	DC VOLTAGE	4.2V	5V	12V	15V	24V	36V	48V	55V
	RATED CURRENT	80A	80A	41.7A	33.4A	20.9A	13.9A	10.45A	8.9A
	RATED POWER	336W	400W	500.4W	501W	501.6W	500.4W	501.6W	500W
	RIPPLE & NOISE (max.) Note.2	200mVp-p	200mVp-p	200mVp-p	200mVp-p	240mVp-p	360mVp-p	360mVp-p	500mVp-p
OUTPUT	VOLTAGE ADJ. RANGE Note.7	3.6~4.4V	4.5~5.5V	11.4~12.6V	14.3~15.8V	22.8~25.2V	34.2~37.8V	45.6~50.4V	45~58V
	VOLTAGE TOLERANCE Note.3	±2.0%	±2.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%
	LINE REGULATION	±0.5%	±0.5%	±0.3%	±0.3%	±0.3%	±0.3%	±0.3%	±0.3%
	LOAD REGULATION	±1.0%	±1.0%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
	SETUP, RISE TIME	1000ms, 50m	s/230VAC; 100	00ms,50ms/11	VAC at full loa	ıd;550ms/230VA	C for 55V setup	time	
	HOLD UP TIME (Typ.)	12ms/230VAC 12ms/115VAC							
	VOLTAGE RANGE Note.4		127 ~ 37						
	FREQUENCY RANGE	47 ~ 63Hz							
	POWER FACTOR (Typ.)	47 ~ 63HZ PF≥0.95/230VAC PF≥0.98/115VAC at full load							
	EFFICIENCY (Typ.)	89%	90%	94%	94%	94.5%	95%	95%	95%
INPUT					94 /0	94.576	95 /6	95 /6	95/6
	AC CURRENT (Typ.)	4.85A/115VA							
	INRUSH CURRENT (Typ.)Note9			60A/230VAC					
	LEAKAGE CURRENT	<0.75mA / 240VAC							
	OVERLOAD 110~140% rated output power								
		Protection typ	e : Hiccup mod	de, recovers au	itomatically aft	er fault condition	on is removed		
ROTECTION	OVER VOLTAGE	4.62 ~ 5.46V	5.75 ~ 6.75V	13.2 ~ 15.6V	16.5 ~ 19.5V	26.4 ~ 31.2V	39.6 ~46.8V	52.8 ~ 62.4V	60 ~ 69V
	OVER VOLINGE	Protection type :Shut down O/P voltage,re-power on to recover							
	OVER TEMPERATURE	Protection typ	e :Shut down	O/P voltage, re	covers automa	itically after ter	nperature goes	s down	
	DC OK SIGNAL(Optional)	Contact rating(max.):30Vdc/1A resistive load							
FUNCTION	REDUNDANT(Optional)	For parallel connection protection:For parallel applications, when one PSU can not work , the another one will be automatically enabled. This can prevent the system crash, and provide the reliability of system							
	WORKING TEMP.	-30 ~ +70°C (Refer to "Derating Curve")							
	WORKING HUMIDITY	20 ~ 95% RH non-condensing							
NVIRONMENT	STORAGE TEMP., HUMIDITY	9							
	TEMP. COEFFICIENT	±0.03%/°C (0~50°C)							
	VIBRATION	10 ~ 500Hz, 5G 10min./1cycle, 60min. each along X, Y, Z axes							
SAFETY &	SAFETY STANDARDS	UL 62368-1,TUV BS EN/EN62368-1,BS EN/EN60335-1(Except for 55V), CCC GB4943, BSMI CNS14336-1, EAC TP TC 004 approved; Design refer to BS EN/EN61558-2-16							
EMC	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.25KVAC							
Note.6)	ISOLATION RESISTANCE	I/P-O/P, I/P-F	G,O/P-FG:100	M Ohms/500V	DC/25°C / 70%	RH			
	EMC EMISSION	Compliance to BS EN/EN55032,GB/T9254,Class B, BS EN/EN61000-3-2,-3, BSMI CNS13438, EAC TP TC 020							
	EMC IMMUNITY	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11;BS EN/EN61000-6-2 (BS EN/EN50082-2),BS EN/EN55035, heavy industry level ,EAC TP TC 020							
	MTBF	1264.1 K hrs	min. Telcord	lia SR-332 (Be	llcore); 167.6	K hrs min.	MIL-HDBK-217	'F (25°C)	
OTHERS	DIMENSION	232*81*31mn	n (L*W*H)		, ,			(- /	
	PACKING	0.905kg: 16p	cs/15.48kg/0.8	2CUFT					
NOTE	Ripple & noise are measure Tolerance :includes set up t Derating may be needed ur The ambient temperature de The power supply is consider that it still meets EMC direct please refer to "EMI testing Please refer to derating currents."	pecially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. Provided the possibility of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. Provided under low input voltages. Please check the derating curve for more details. Provided under low input voltages. Please check the derating curve for more details. Provided under low input voltages. Please check the derating curve for more details. Provided under low input voltages. Please check the derating curve for more details. Provided under low input voltages. Please check the derating curve for more details. Provided under low input voltages. Please check the derating curve for more details. Provided under low input voltages. Please check the derating curve for more details. Provided under low input voltages. Please check the derating curve for more details. Provided under low input voltages. Please check the derating curve for more details. Provided under low input voltages. Please check the derating curve for more details. Provided under low input voltages. Please check the derating curve for more details. Provided under low input voltages. Please check the derating curve for more details. Provided under low input voltages. Please check the derating curve for more details. Provided under low input voltages. Please check the derating curve for more details. Provided under low input voltages. Provided unde							

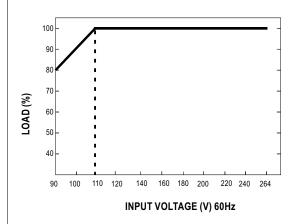
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■ STATIC CHARACTERISTIC

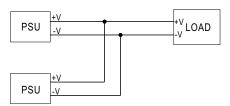


■ DC OK Relay Contact

Contact Close	PSU turns on/DC ok
Contact Open	PSU turns off/DC fail
Contact Rating(max.)	30Vdc/1A resistive load

■ Redundant function

- (1) UHP-500R is built-in redundant function and can be connected 2 units in parallel .
- (2) When in parallel operation the maximum load should not be greater than the rated power of any PSU.

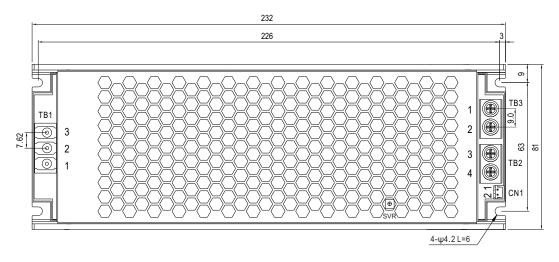


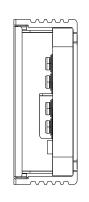


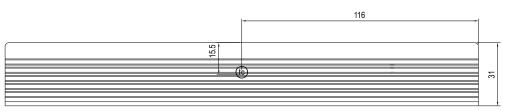
■ Mechanical Specification

CASE NO.:233D

Unit:mm







• (tc): Max. Case Temperature

AC Input Terminal(TB1) pin NO. Assignment

7. topat 10a.(12.) p10						
Pin No.	Assignment	Terminal	Max mounting torque			
1	AC/L	(550001))				
2	AC/N	(DEGSON) DG28C-B-03P	5Kgf-cm			
3	÷					

DC Output Terminal (TB2,TB3) pin NO. Assignment

Pin No.	Assignment	Terminal	Max mounting torque
1,2	-V	(MW)	
3,4	+V	MEL-400-02P	8Kgf-cm

DC OK Connector(CN1):JST B2B-PH-K-S or requivalent

Pin No.	Assignment	Mating Housing	Terminal
1	DC COM1	JST PHR-2	JST SPH-002T-P0.5S
2	DC COM2	or requivalent	or requivalent



■ Installation

1. Operate with additional aluminum plate

In order to meet the "Derating Curve" and the "Static Characteristics", UHP-500 series must be installed onto an aluminum plate (or the cabinet of the same size) on the bottom. The size of the suggested aluminum plate is shown as below. And for optimizing thermal performance, the aluminum plate must have an even and smooth surface (or coated with thermal grease), and UHP-500 series must be firmly mounted at the center of the aluminum plate.

unit:mm

